

FIGURE 1

09/21/297
10/13

GAGCTCGGAT CCACTACTCG ACCCACGCGT CCGGCCAGGA CCTCTGTGAA CCGGTCGGGG	60
CGGGGGCCGC CTGGCCGGGA GTCTGCTCGG CGGTGGGTGG CCGAGGAAGG GAGAGAACGA	120
TCGCGGAGCA GGGCGCCCGA ACTCCGGGCG CCGCGCC ATG CGC CGG GCC AGC CGA	175
Met Arg Arg Ala Ser Arg	
1 5	
GAC TAC GGC AAG TAC CTG CGC AGC TCG GAG GAG ATG GGC AGC GGC CCC	223
Asp Tyr Gly Lys Tyr Leu Arg Ser Ser Glu Glu Met Gly Ser Gly Pro	
10 15 20	
GGC GTC CCA CAC GAG GGT CCG CTG CAC CCC GCG CCT TCT GCA CCG GCT	271
Gly Val Pro His Glu Gly Pro Leu His Pro Ala Pro Ser Ala Pro Ala	
25 30 35	
CCG GCG CCG CCA CCC GCC GCC TCC CGC TCC ATG TTC CTG GCC CTC CTG	319
Pro Ala Pro Pro Pro Ala Ala Ser Arg Ser <u>Met Phe Leu Ala Leu Leu</u>	
40 45 50	
GGG CTG GGA CTG GGC CAG GTG GTC TGC AGC ATC GCT CTG TTC CTG TAC	367
<u>Gly Leu Gly Leu Gly Gln Val Val Cys Ser Ile Ala Leu Phe Leu</u> Tyr	
55 60 65 70	
TTT CGA GCG CAG ATG GAT CCT AAC AGA ATA TCA GAA GAC AGC ACT CAC	415
Phe Arg Ala Gln Met Asp Pro Asn Arg Ile Ser Glu Asp Ser Thr His	
75 80 85	
TGC TTT TAT AGA ATC CTG AGA CTC CAT GAA AAC GCA GGT TTG CAG GAC	463
Cys Phe Tyr Arg Ile Leu Arg Leu His Glu Asn Ala Gly Leu Gln Asp	
90 95 100	
TCG ACT CTG GAG AGT GAA GAC ACA CTA CCT GAC TCC TGC AGG AGG ATG	511
Ser Thr Leu Glu Ser Glu Asp Thr Leu Pro Asp Ser Cys Arg Arg Met	
105 110 115	
AAA CAA GCC TTT CAG GGG GCC GTG CAG AAG GAA CTG CAA CAC ATT GTG	559
Lys Gln Ala Phe Gln Gly Ala Val Gln Lys Glu Leu Gln His Ile Val	
120 125 130	
GGG CCA CAG CGC TTC TCA GGA GCT CCA GCT ATG ATG GAA GGC TCA TGG	607
Gly Pro Gln Arg Phe Ser Gly Ala Pro Ala Met Met Glu Gly Ser Trp	
135 140 145 150	
TTG GAT GTG GCC CAG CGA GGC AAG CCT GAG GCC CAG CCA TTT GCA CAC	655
Leu Asp Val Ala Gln Arg Gly Lys Pro Glu Ala Gln Pro Phe Ala His	
155 160 165	
CTC ACC ATC AAT GCT GCC AGC ATC CCA TCG GGT TCC CAT AAA GTC ACT	703
Leu Thr Ile Asn Ala Ala Ser Ile Pro Ser Gly Ser His Lys Val Thr	
170 175 180	

BB4T 45T260

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	38.5	12.5	25	65
Gender	0.5	0.5	0	1
Marital Status	0.7	0.5	0	1
Education	12.5	2.5	9	16
Income	45,000	15,000	20,000	80,000
Health Status	0.8	0.4	0	1
Exercise Frequency	2.5	1.5	0	5
Stress Level	3.5	1.5	1	5
Sleep Quality	4.0	1.0	2	5
Dietary Habits	3.0	1.0	1	5
Work-Life Balance	3.5	1.0	1	5
Overall Well-being	4.5	1.0	2	5

[illegible]

FIGURE 1 (Con't)

TTCTAATGAG GAGAGAAAAA TATATGTATT TTTATATAAT GTCTAAAGTT ATATTTTCAGG	1616
TGTAATGTTT TCTGTGCAAA GTTTTGTAAA TTATATTTGT GCTATAGTAT TTGATTCAAA	1676
ATATTTAAAA ATGTCTCACT GTTGACATAT TTAATGTTTT AAATGTACAG ATGTATTTAA	1736
CTGGTGCACT TTGTAATTCC CCTGAAGGTA CTCGTAGCTA AGGGGGCAGA ATACTGTTTC	1796
TGGTGACCAC ATGTAGTTTA TTTCTTTATT CTTTTTAACT TAATAGAGTC TTCAGACTTG	1856
TCAAAACTAT GCAAGCAAAA TAAATAAATA AAAATAAAAT GAATACCTTG AATAATAAGT	1916
AGGATGTTGG TCACCAGGTG CCTTTCAAAT TTAGAAGCTA ATTGACTTTA GGAGCTGACA	1976
TAGCCAAAAA GGATACATAA TAGGCTACTG AAATCTGTCA GGAGTATTTA TGCAATTATT	2036
GAACAGGTGT CTTTTTTTAC AAGAGCTACA AATTGTAAAT TTTGTTTCTT TTTTTTCCCA	2096
TAGAAAATGT ACTATAGTTT ATCAGCCAAA AAACAATCCA CTTTTTAATT TAGTGAAAGT	2156
TATTTTATTA TACTGTACAA TAAAAGCATT GTCTCTGAAT GTTAATTTTT TGGTACAAAA	2216
AATAAATTTG TACGAAAACC TGAAAAAAA AAAAAAAAAA AAAAAAAGGG CGGCCGCTCT	2276
AGAGGGCCCT ATTCTATAG	2295

Expression of 32D-F3 in COS-7 Cells

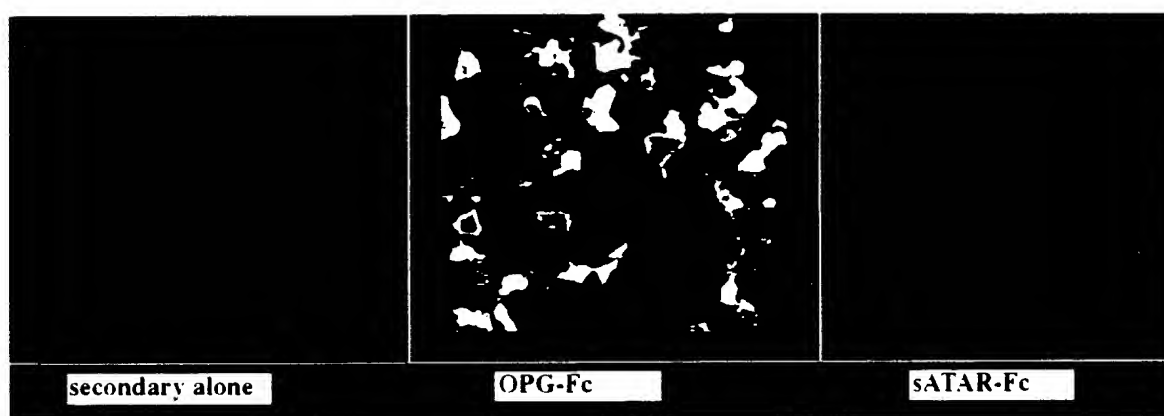


FIGURE 2

OPG Binding Protein Expression in Human Tissues

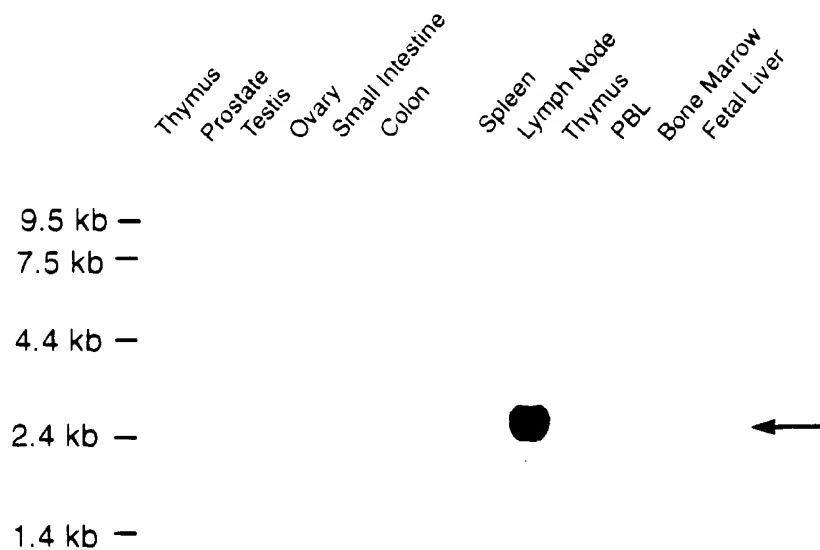


FIGURE 3

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FIGURE 4

10 30 50
 AAGCTTGGTACCGAGCTCGGATCCACTACTCGACCCACGCGTCCGCGCGCCCCAGGAGCC
 70 90 110
 AAAGCCGGGCTCCAAGTCGGCGCCCCACGTTCGAGGCTCCGCCGAGCCTCCGGAGTTGGC
 130 150 170
 CGCAGACAAGAAGGGGAGGGAGCGGGAGAGGGAGGAGAGCTCCGAAGCGAGAGGGCCGAG
 190 210 230
 CGCCATGCGCCGCGCCAGCAGAGACTACACCAAGTACCTGCGTGGCTCGGAGGAGATGGG
 M R R A S R D Y T K Y L R G S E E M G
 250 270 290
 CGGCGGCCCCGGAGCCCCGACGAGGGCCCCCTGCACGCCCCGCCCGCCCTGCGCCGCA
 G G P G A P H E G P L H A P P P P A P H
 310 330 350
 CCAGCCCCCGCCGCTCCCGCTCCATGTTCTGCGCCCTCCTGGGGCTGGGGCTGGGCCA
 Q P P A A S R S M F V A L L G L G L G Q
 370 390 410
 GGTTGTCTGCAGCGTCGCCCTGTTCTTCTATTTTCAGAGCGCAGATGGATCCTAATAGAAT
 V V C S V A L F F Y F R A Q M D P N R I
 430 450 470
 ATCAGAAGATGGCACTCACTGCATTTATAGAATTTTGAGACTCCATGAAAATGCAGATTT
 S E D G T H C I Y R I L R L H E N A D F
 490 510 530
 TCAAGACACAACCTCTGGAGAGTCAAGATACAAAATTAATACCTGATTCATGTAGGAGAAT
 Q D T T L E S Q D T K L I P D S C R R I
 550 570 590
 TAAACAGGCCTTTCAAGGAGCTGTGCAAAAGGAATTACAACATATCGTTGGATCACAGCA
 K Q A F Q G A V Q K E L Q H I V G S Q H
 610 630 650
 CATCAGAGCAGAGAAAGCGATGGTGGATGGCTCATGGTTAGATCTGGCCAAGAGGAGCAA
 I R A E K A M V D G S W L D L A K R S K
 670 690 710
 GCTTGAAGCTCAGCCTTTTGCTCATCTCACTATTAATGCCACCGACATCCCATCTGGTTC
 L E A Q P F A H L T I N A T D I P S G S
 730 750 770
 CCATAAAGTGAGTCTGTCTCTTGGTACCATGATCGGGGTTGGGCCAAGATCTCCAACAT
 H K V S L S S W Y H D R G W A K I S N M
 790 810 830
 GACTTTTAGCAATGGAAAATAATAGTTAATCAGGATGGCTTTTATTACCTGTATGCCAA
 T F S N G K L I V N Q D G F Y Y L Y A N
 850 870 890
 CATTTGCTTTTCGACATCATGAACTTCAGGAGACCTAGCTACAGAGTATCTTCAACTAAT
 I C F R H H E T S G D L A T E Y L Q L M
 910 930 950
 GGTGTACGTCACTAAAACCAGCATCAAAATCCCAAGTTCTCATACCCTGATGAAAGGAGG
 V Y V T K T S I K I P S S H T L M K G G
 970 990 1010

091139 "13490

FIGURE 4

AAGCACCAAGTATTGGTCAGGGAATTCTGAATTCCATTTTATTCCATAAACGTTGGTGG
S T K Y W S G N S E F H F Y S I N V G G

1030 1050 1070
ATTTTTTAAGTTACGGTCTGGAGAGGAAATCAGCATCGAGGTCTCCAACCCCTCCTTACT
F F K L R S G E E I S I E V S N P S L L

1090 1110 1130
GGATCCGGATCAGGATGCAACATACTTTGGGGCTTTTAAAGTTCGAGATATAGATTGAGC
D P D Q D A T Y F G A F K V R D I D

1150 1170 1190
CCCAGTTTTTGGAGTGTTATGTATTTCTGGATGTTTGGAAACATTTTTTAAACAAGCC

1210 1230 1250
AAGAAAGATGTATATAGGTGTGTGAGACTACTAAGAGGCATGGCCCCAACGGTACACGAC

1270 1290 1310
TCAGTATCCATGCTCTTGACCTTGTAAGAACACGCGTATTTACAGCCAGTGGGAGATGT

1330 1350 1370
TAGACTCATGGTGTGTTACACAATGGTTTTTAAATTTGTAATGAATTCCTAGAATTAAA

1390 1410 1430
CCAGATTGGAGCAATTACGGGTTGACCTTATGAGAAACTGCATGTGGGCTATGGGAGGGG

1450 1470 1490
TTGGTCCCTGGTCATGTGCCCCCTTCGCAGCTGAAGTGGAGAGGGTGTCATCTAGCGCAAT

1510 1530 1550
TGAAGGATCATCTGAAGGGGCAAATTCCTTTGAATTGTTACATCATGCTGGAACCTGCAA

1570 1590 1610
AAAATACTTTTTCTAATGAGGAGAGAAAATATATGTATTTTTATATAATATCTAAAGTTA

1630 1650 1670
TATTTTCAGATGTAATGTTTTCTTTGCAAAGTATTGTAAATTATATTTGTGCTATAGTATT

1690 1710 1730
TGATTCAAAATATTTAAAAATGTCTTGCTGTTGACATATTTAATGTTTTAAATGTACAGA

1750 1770 1790
CATATTTAACTGGTGCACCTTTGTAAATTCCTGGGGAAAACCTGCAGCTAAGGAGGGGAA

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FIGURE 4

1810 1830 1850
 AAAAAATGTTGTTTCCCTAATATCAAATGCAGTATATTTCTTCGTTCTTTTAAAGTTAATAG
 1870 1890 1910
 ATTTTTTCAGACTTGTCAAGCCTGTGCAAAAAAATTAAAATGGATGCCTTGAATAATAAG
 1930 1950 1970
 CAGGATGTTGGCCACCAGGTGCCTTTCAAATTTAGAACTAATTGACTTTAGAAAGCTGA
 1990 2010 2030
 CATTGCCAAAAAGGATACATAATGGGCCACTGAAATCTGTCAAGAGTAGTTATATAATTG
 2050 2070 2090
 TTGAACAGGTGTTTTCCACAAGTGCCGCAAATTGTACCTTTTTTTTTTTTTTCAAATAG
 2110 2130 2150
 AAAAGTTATTAGTGGTTTATCAGCAAAAAAGTCCAATTTTAATTTAGTAAATGTTATCTT
 2170 2190 2210
 ATACTGTACAATAAAAAACATTGCCTTTGAATGTTAATTTTTTGGTACAAAAATAAATTTA
 2230 2250 2270
 TATGAAAAAAAAAAAAAGGGCGGCCGCTCTAGAGGGCCCTATTCTATAG

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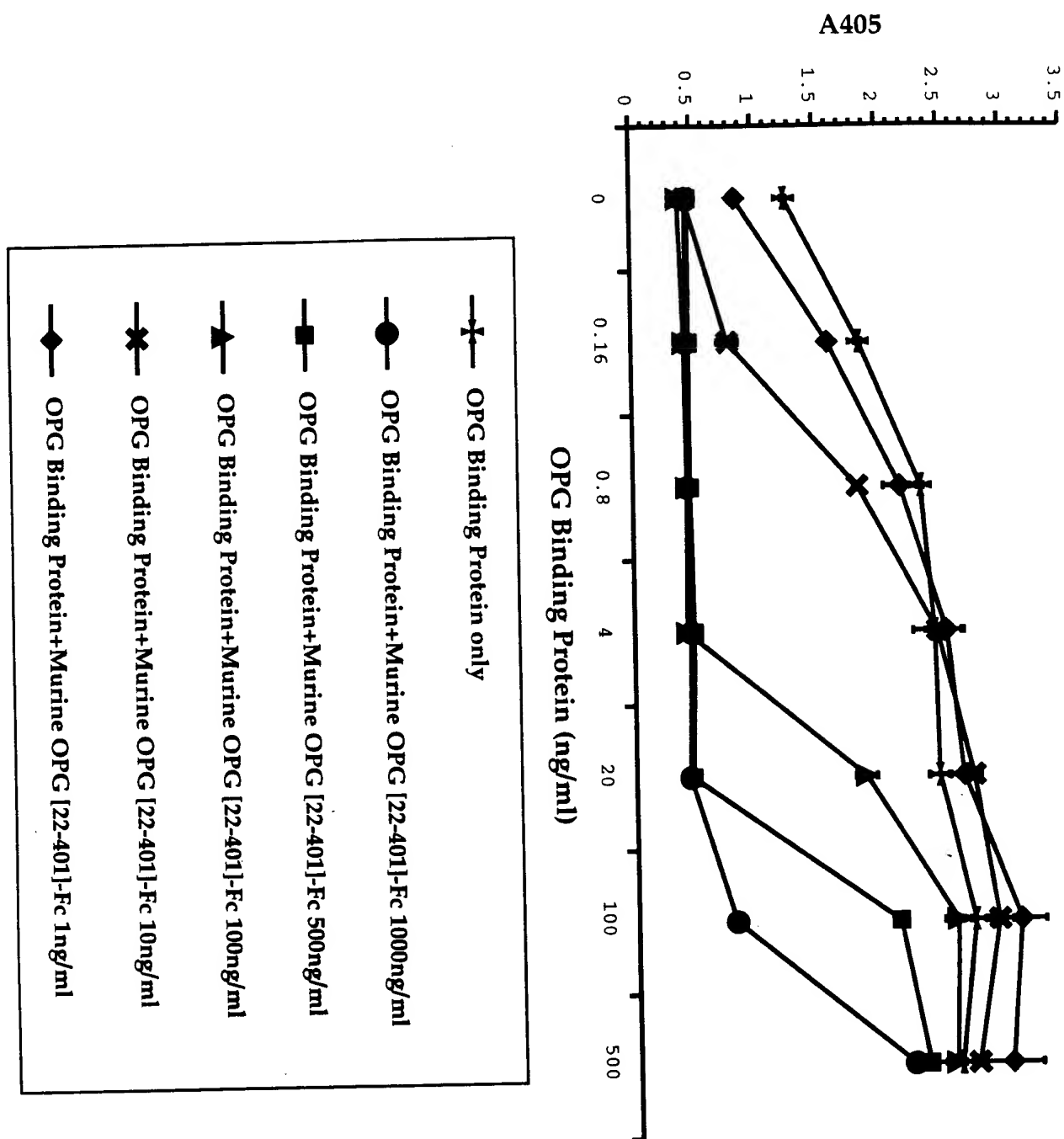


FIGURE 5

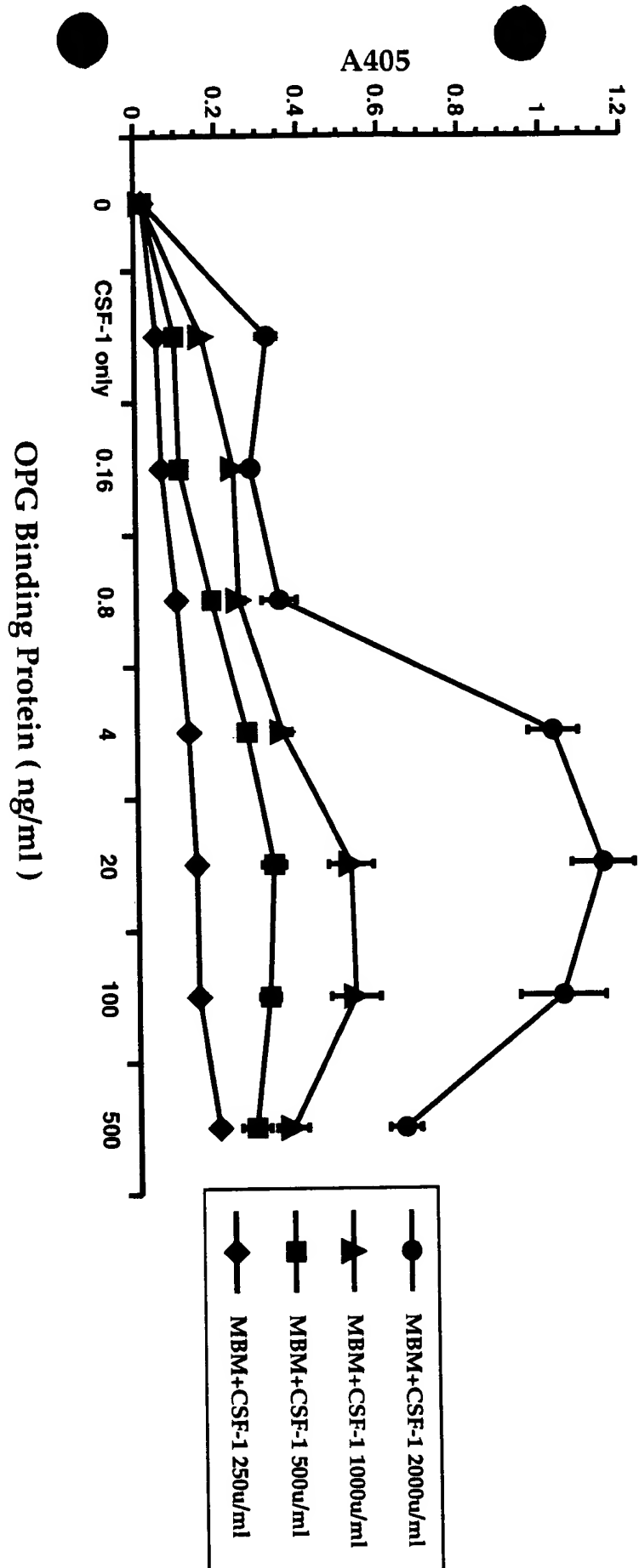
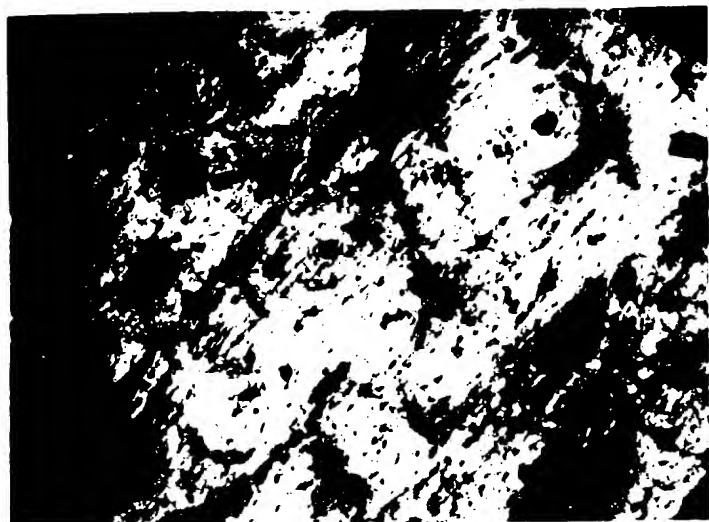
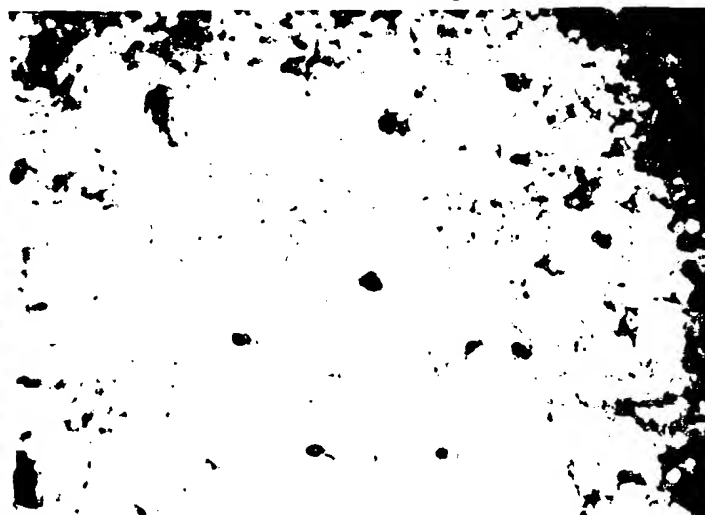


FIGURE 6

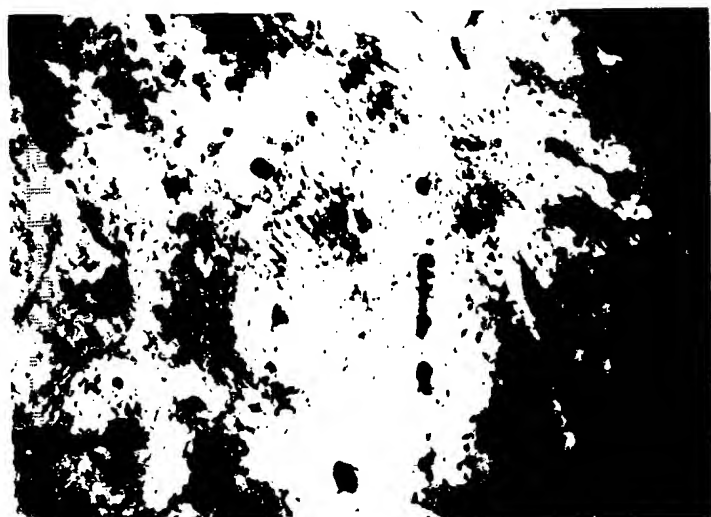
Toluidine Blue Staining



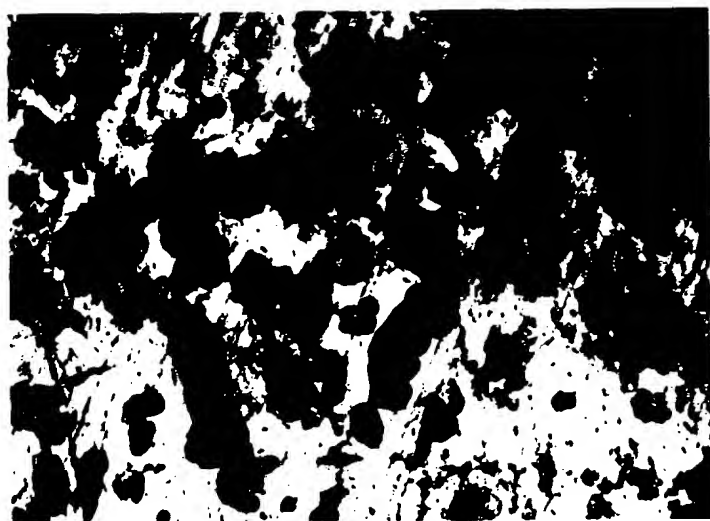
AP staining



Bone Marrow Cells + M-CSF-1



Bone Marrow Cells + OPG Binding Protein



Bone Marrow Cells + M-CSF-1 + OPG Binding Protein

864TCT-462T250

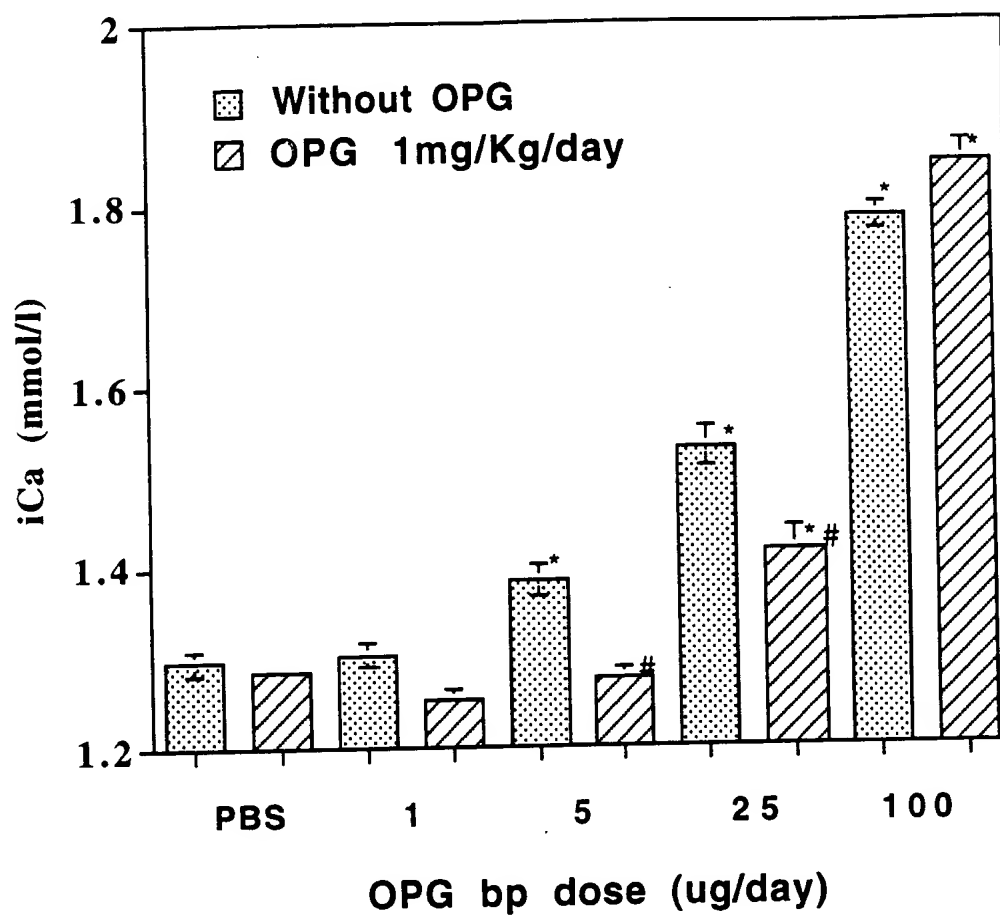


FIGURE 8

0921197 121493
B64T 26

PBS



OPGbp 5ug/d



OPGbp 25ug/d



OPGbp100ug/d



FIGURE 9